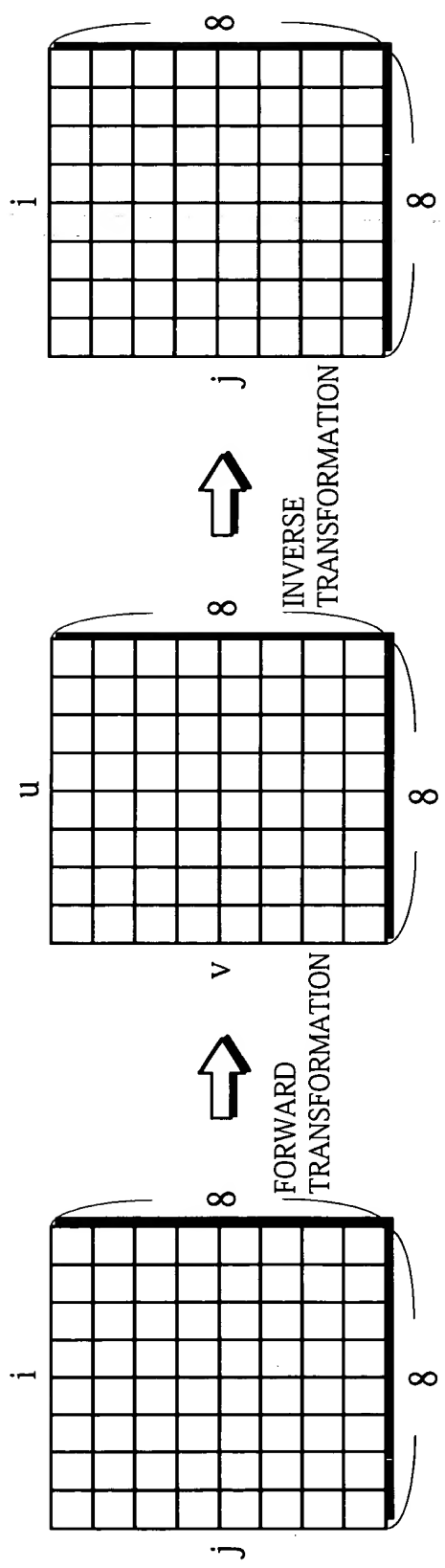


The diagram illustrates a video decoding architecture. The process begins with the input of a "VARIABLE LENGTH CODED TRANSFORM COEFFICIENT" into a "VARIABLE LENGTH DECODER" (101). The output of the decoder goes to an "INVERSE QUANTIZER" (102), which then feeds into an "INVERSE DCT CIRCUIT 8x8" (103). The output of the inverse DCT circuit is summed at a junction (indicated by a circle with a plus sign) with a signal from a "FIRST MOTION COMPENSATION CIRCUIT" (121) before entering a "FIRST REFERENCE IMAGE MEMORY" (106). A similar path exists for a "SECOND MOTION COMPENSATION CIRCUIT" (122) leading to a "SECOND REFERENCE IMAGE MEMORY" (107). Both reference memories provide feedback signals (111 and 112) to their respective motion compensation circuits. An "AVERAGING SECTION" (108) receives inputs from both motion compensation circuits and provides a control signal (113) to the first motion compensation circuit. A "CPU" (110) is connected to all major components via a dashed line representing a bus or control network. Finally, the outputs from the reference memories are processed by a "VARIABLE LENGTH DECODER" (109) to produce the final "IMAGE DATA".

APPROVED	O.G. FIG.	
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FIG. 2



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FIG. 3

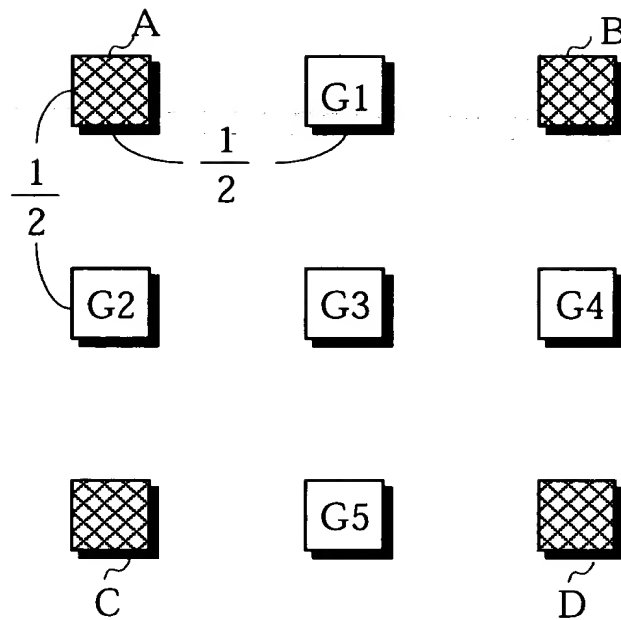
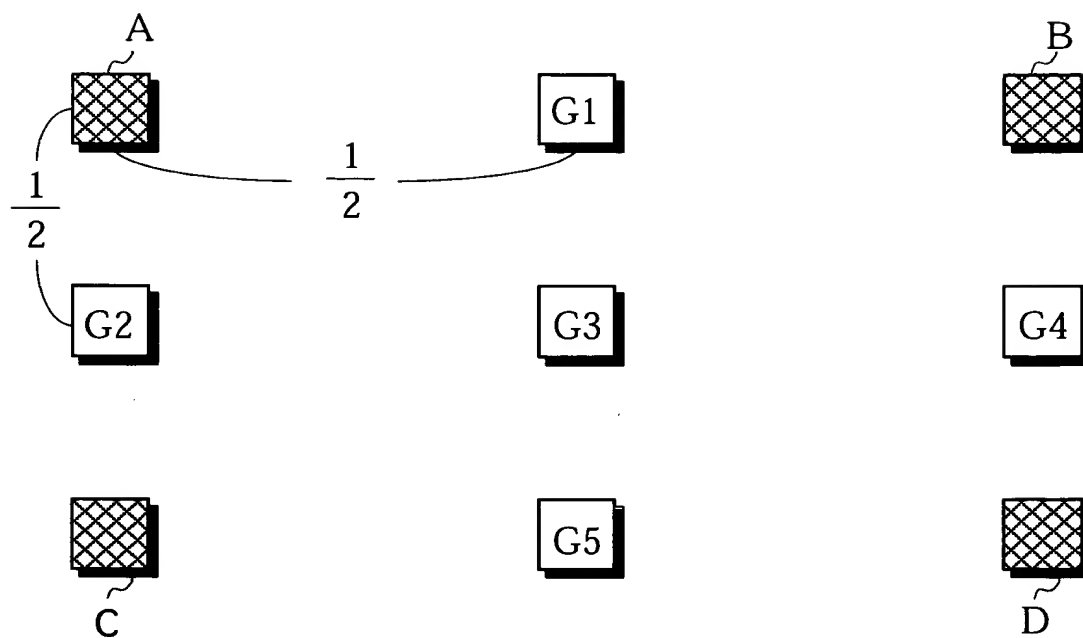


FIG. 4



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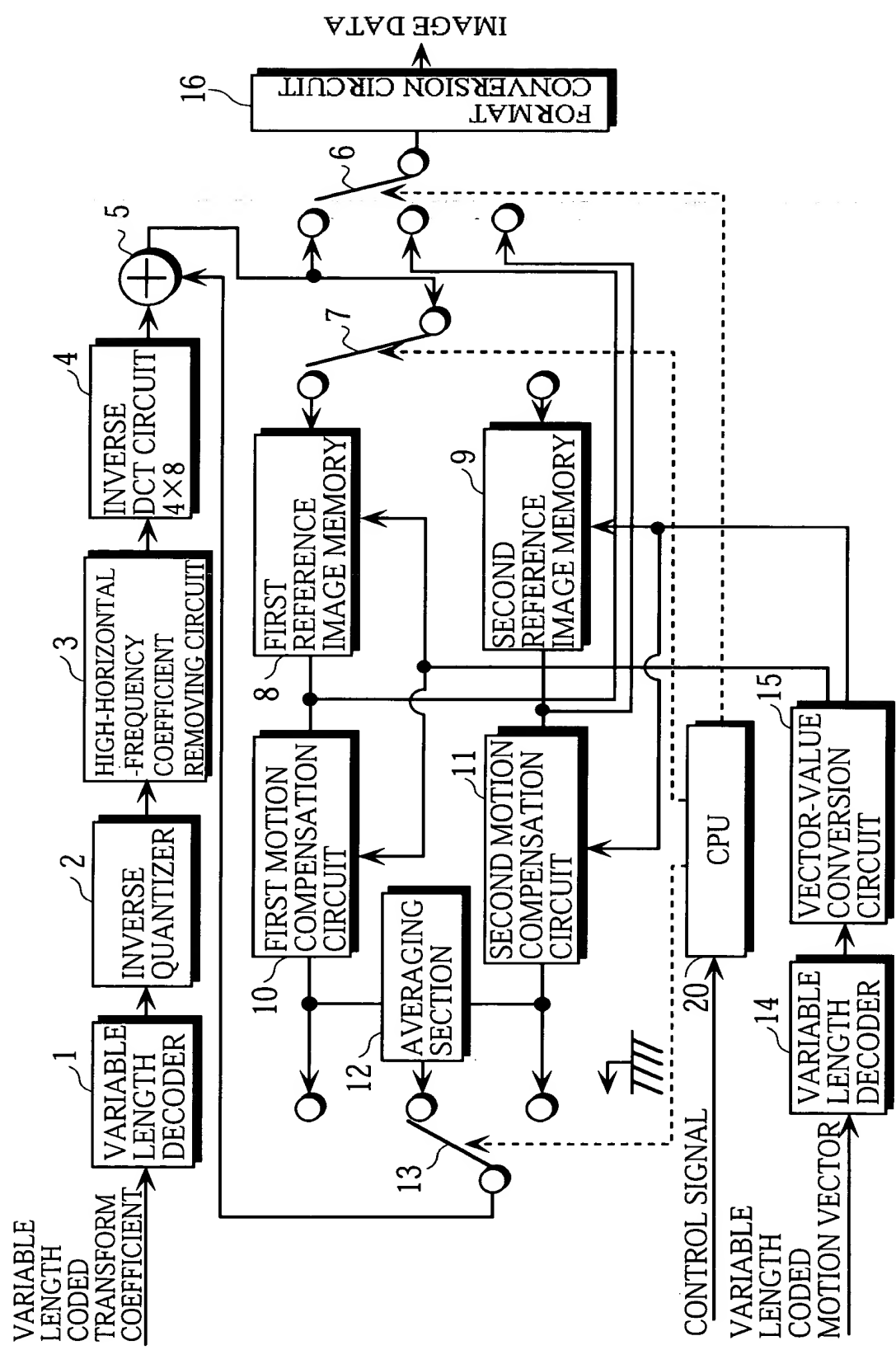
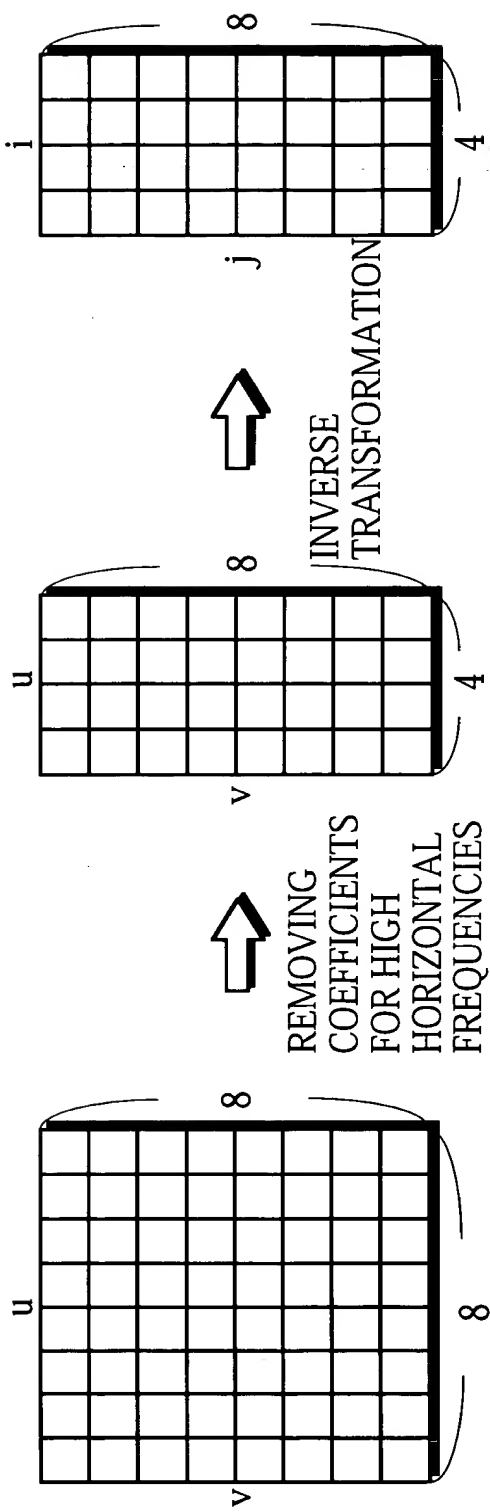


FIG. 5

DocId: 32531260

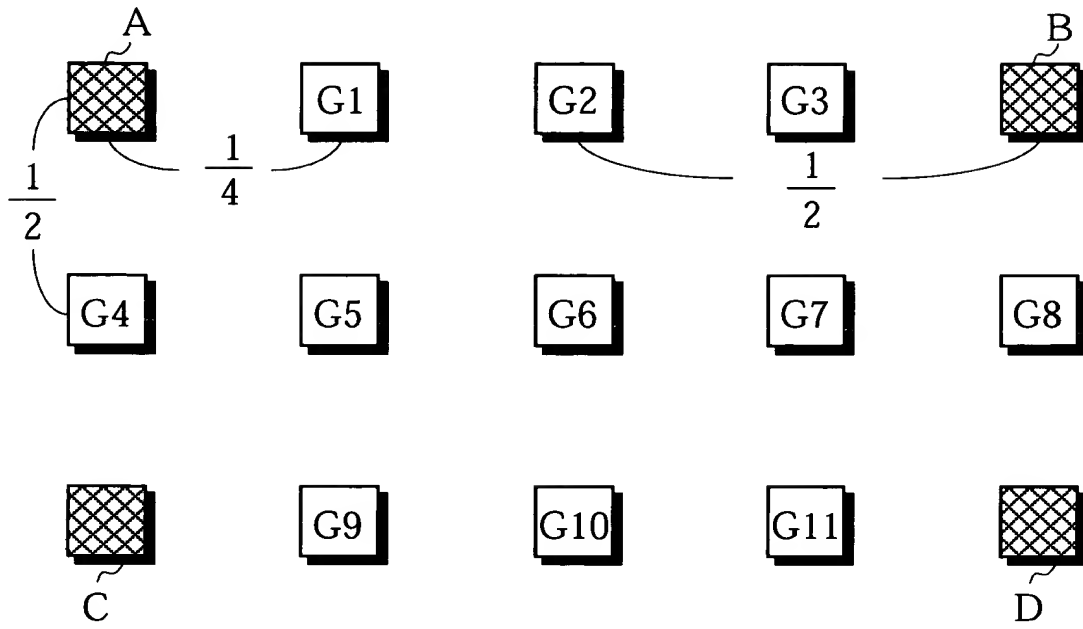
APPROVED	O.G. FIG.	
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FIG. 6



APPROVED	O.G. FIG.	
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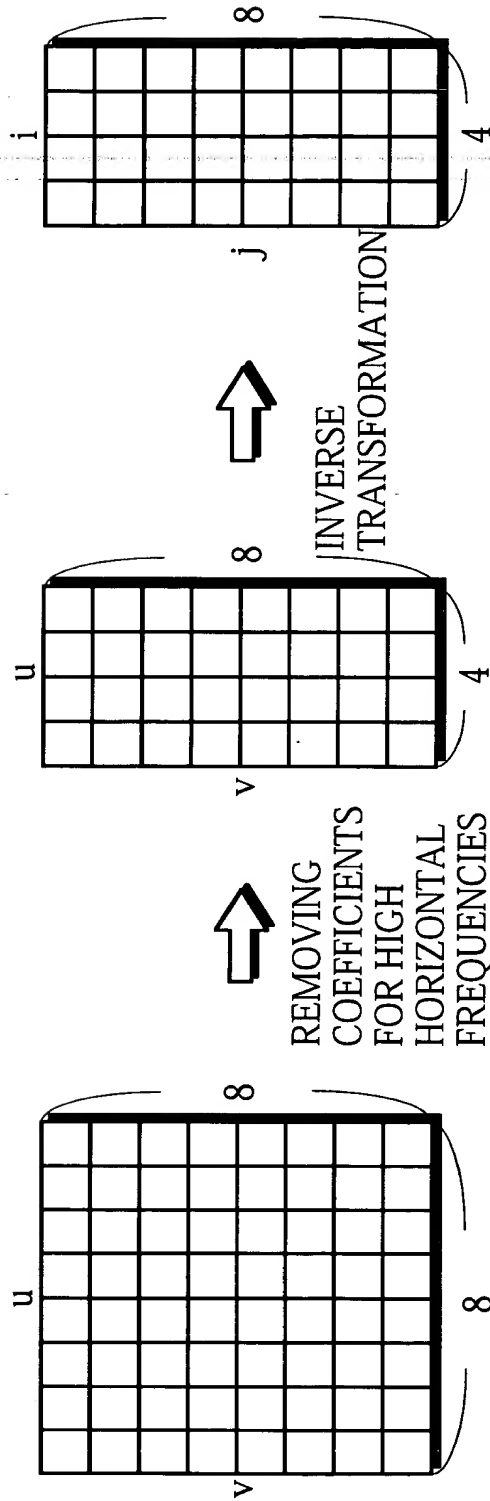
FIG. 7





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FIG. 9





APPROVED	O.G. FIG.	
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FIG. 10

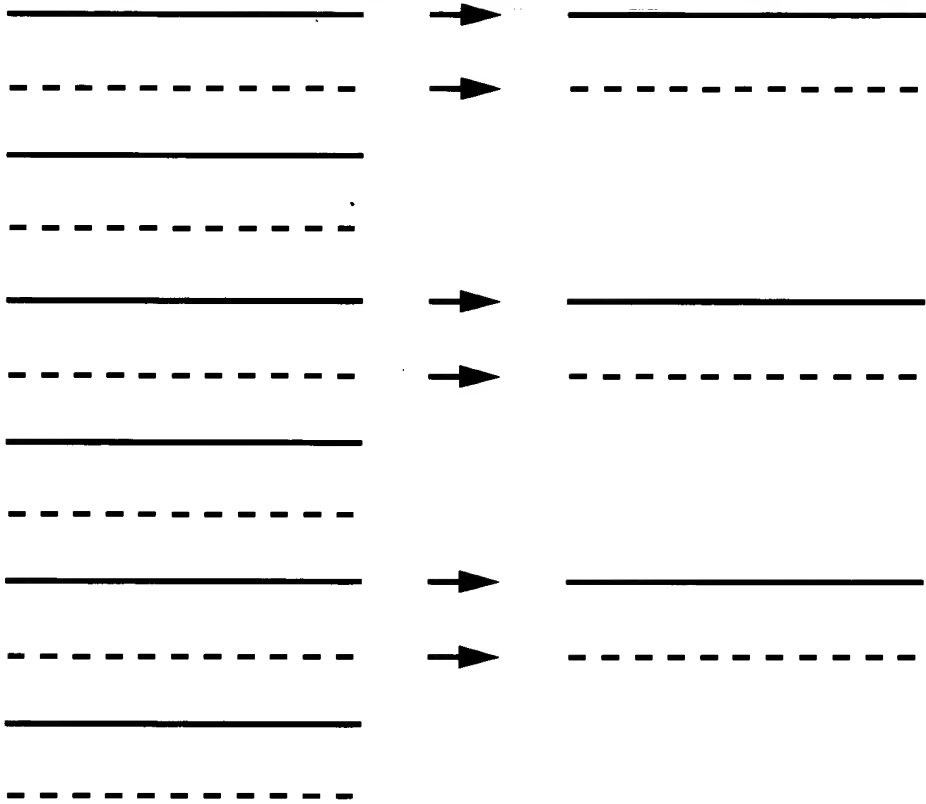
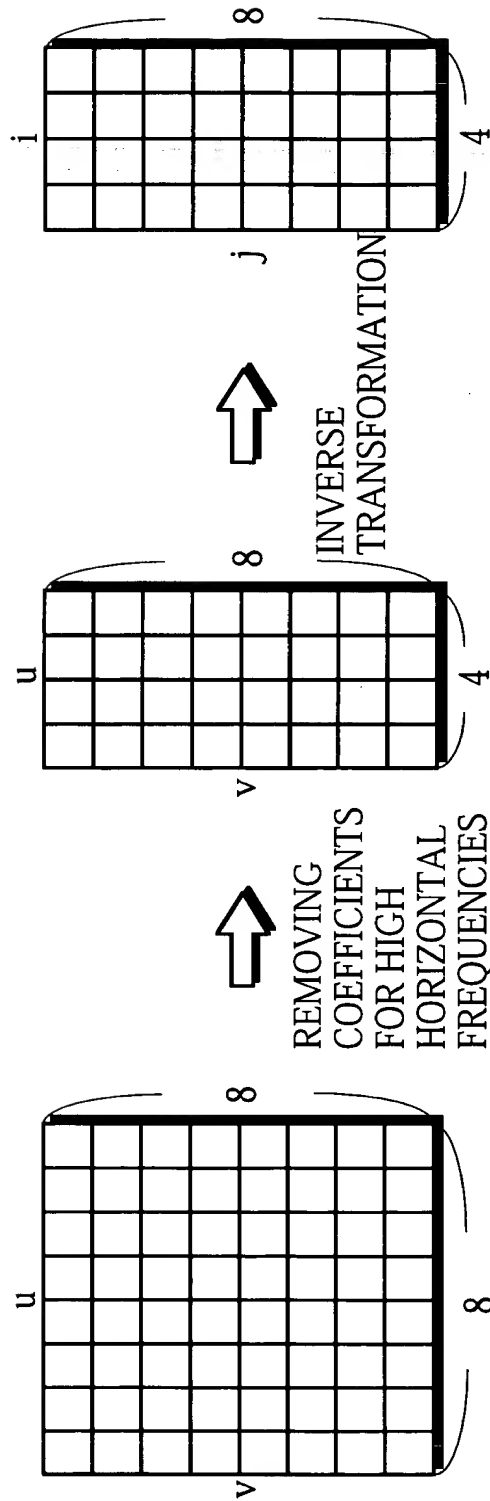


FIG. 10



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FIG. 12



SECRET 3303700

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FIG. 13a

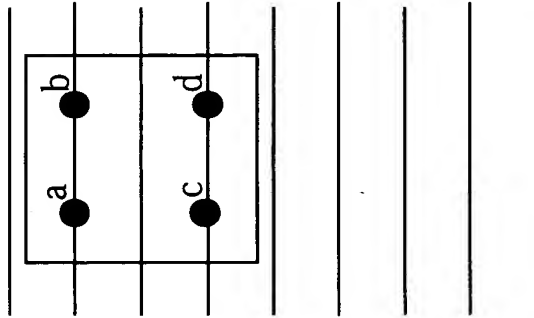


FIG. 13b

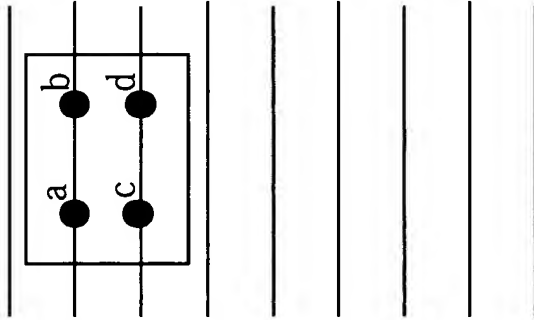


FIG. 13c

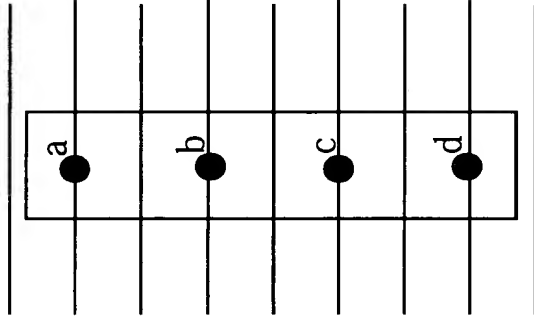


FIG. 13d

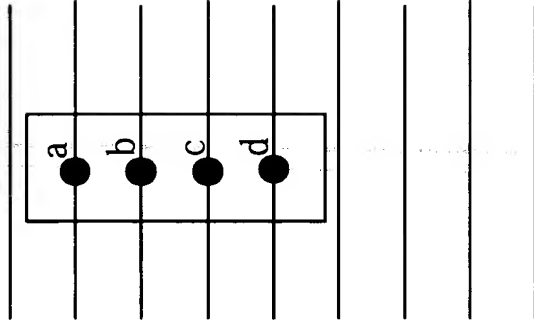


FIG. 14

HADAMARD COEFFICIENT K	QUANTIZED VALUE K'	DEQUANTIZED VALUE (REPRESENTATIVE VALUE) K"
-128~-87 (-128~-29)	-8	-93 (-34)
-86~-69 (-28~-25)	-7	-77 (-26)
-68~-53 (-24~-21)	-6	-60 (-22)
-52~-39 (-20~-17)	-5	-45 (-18)
-38~-27 (-16~-13)	-4	-32 (-14)
-26~-17 (-12~-9)	-3	-18 (-10)
-16~-9 (-8~-5)	-2	-12 (-6)
-8~-5 (-4~-3)	-1	-6 (-3)
-4~+4 (-2~+2)	0	0 (0)
+5~+8 (+3~+4)	+1	+6 (+3)
+9~+16 (+5~+8)	+2	+12 (+6)
+17~+26 (+9~+12)	+3	+18 (+10)
+27~+38 (+13~+16)	+4	+32 (+14)
+39~+52 (+17~+20)	+5	+45 (+18)
+53~+68 (+21~+24)	+6	+60 (+22)
+69~+127 (+25~+127)	+7	+84 (+32)

APPROVED	O.G. FIG.	
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FIG. 15

HADAMARD COEFFICIENT K	QUANTIZED VALUE K'	DEQUANTIZED VALUE (REPRESENTATIVE VALUE) K''
-128~-61 (-128~-31)	-4	-70 (-35)
-60~-41 (-30~-21)	-3	-50 (-25)
-40~-21 (-20~-11)	-2	-30 (-15)
-20~-9 (-10~-5)	-1	-14 (-7)
-8~+8 (-4~+4)	0	0 (0)
+9~+20 (+5~+10)	+1	-14 (-7)
+21~+40 (+11~+20)	+2	-30 (-15)
+41~+127 (+21~+127)	+3	-60 (-30)

APPROVED	O.G. FIG.	
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FIG. 16

HADAMARD COEFFICIENT K	QUANTIZED VALUE K'	DEQUANTIZED VALUE (REPRESENTATIVE VALUE) K''
-128~-17 (-128~-9)	-2	-18 (-14)
-16~-11 (-8~-5)	-1	-13 (-6)
-10~+10 (-4~+4)	0	0 (0)
+11~+127 (+5~+127)	+1	+15 (+12)